ABSTRACT OF THE DISCLOSURE

A system and method for frequency planning in a wireless communication network area using an impact matrix which relates signal interference impacts between sectors in a network service area for co-channel and adjacent channel interference. The impact matrix uses weighted propagation analysis and empirical measurement data to determine signal levels within each pixel of a network service area. The system merges the propagation analysis and empirical measurement data according to user assigned confidences.

0159872.01

 $(x_1, x_2, \dots, x_n) \in \mathbb{R}^n \times \mathbb{R}^n$